

## ***SAM (REX/Ops) Operations Meeting 2008.03.18***

Present: Adam (typist), Jerry, Eric, Anil, Randolph, Krzysztof, Robert, Angela, David, Parag

For reports submitted to the meeting...

*The report text is in this font*

*Comments made during the meeting are in this font inline with the report*

### **Releases:**

*There is a new version of Omniorb that Robert would like to install, but Steve White is on furlough this week. We'll wait for him to come back.*

### **DØ:**

--- There will be NO SAM shifter up to the end of Thursday.

### **Unresolved issues:**

**#3447: MC forwarding nodes almost at job max : Any comment on this ?**

*There are old stale jobs that have not been cleaned up. "globus-job-manager" . Steve will clean these up. And then we need a script to do this in the future.*

**#3436: Problems on samgfw02 : Is this figured out ?**

*Still consulting with SAMGrid experts*

**#3435: "Globus error 121" : "job manager" issue still not resolved ?**

*Still consulting with SAMGrid experts*

**#3421: can't get job status : Is this issue resolved (by Andrew?) ??**

*Andrew put this into verbose mode - needs to be put back to normal. This problem is due to the XML DB returning an empty XML snippet instead of one with a result element of nothing. Problem has been moved to IT-3415.*

*sam-auto mailing list has been mail bombed continuously by the osgouhep station. (the mailing address is hard coded in the station code). Station has been sending "your project has been idle" messages - this does not use the environment variable for the mail address. It's the routing projects that do not self-terminate. Consult with Andrew. Robert has put in a link to mail in the sam station bin directory to /bin/true so no mail is sent. This is not an ideal fix! If the station is upgraded, we lose this fix!!*

*Much fewer issues this week, aside from the DB crashing. No ill effects seen from this crash.*

### **CDF:**

Tuesday

From last week: no significant problems.

LTO3 begins to have one bad mover.  
instruction says to wait 4 hours before sending  
email to  
enstore-admin. but gone immediately.

Wednesday

Very quiet day.

Just had a daily meeting with Angela Bellevance.  
She pointed out that, in the "Total number files to  
restore" plot,  
there are a couple of gaps mostly  
because of network problem.  
It just affects the monitoring not the operation..

"I have turned off the SAM DbServer called "test\_prd"  
which was running on cdfsam11.fnal.gov.  
This server will be replaced by "cdf-test-prd"  
which will run on fcdfsam2. It might take a while for  
the old entry (which will turn red) to disappear  
off Sam-At-A-Glance,  
and it can be ignored. "

- Angela

"Sorry, the new replacements is dbs-cdf-test-prd  
running on fcdfsam2.

You can also ignore the server dbs\_test\_prd  
that was on fcdfsam7tst, which was started by  
accident."

- Angela

Thursday

As of: Wed Mar 12 19:59:06 2008

The following doors are not responding:

DOOR03 dcap://fcdfrdc3.fnal.gov:22128

DOOR03 dcap://fcdfrdc3.fnal.gov:22128

An email sent to cdf\_diskpool\_admin@fnal.gov

CDF-LTO3 paused

bad movers : LTO3\_10, LTO3\_30, LTO3\_31

bad tape : IAD249

=====

email from David Berg(SSA primary)

"One of the 'bots in SL8500-1 at GCC is offline. This is the library containing all the LTO3 drives CDF-LTO3 library managers are paused."

Krzysztof sent email to cdfdh-announce@fnal.gov and said;;

"This affects most of the caf jobs, farms, and data logging."

Friday

LTO3 robot down problem has been cleared.

The system is back on.

One bad tape IAB354.

An email sent to enstore-admin.

Saturday Shift

"A queue for reads has been building on r-fcdfdata150-2 since around noon.

The pool has been moved to the TestPools group and the number of movers increased by 10.

Will keep an eye on it.

Pool has drained. Putting things back to nominal."

- Angela

Sunday

A bad mover LTO3\_25 and a bad tape IAE410.

An email sent to enstore-admin

Another bad mover came up. LTO3\_30

LTO3\_30 disappeared.

"These are taken care of, along with LTO3\_29 and IAE440.

Both tapes are blank, not even a label. There may be real

problem with a drive or tape. If so, they may go offline

or noaccess again, and we will investigate further."

- David (SSA primary)

Monday

SAM uploading error in fcdldata321

Unable to get the metadata structure for file

/data/top2-das07/submitted/o8025dea.0001top0

--- Unable to get the description for dataset

otop08, please register it

An email sent to TOP convenors, requesting that they contact the creator of the files and tell him/her to register the description..

*Strange problem with dCache server that was missed by normal monitoring (unusual number of errors in the test jobs). Problem was an active, but not working, pool in dCache. dCache group restarted the pool.*

*Primary DBBrowser crashed on Friday. Both primary and secondary were slow on Sunday. Krzysztof had to increase the timeout on the mc upload script where it uses the DBBrowser for information. MC upload uses the "answer service" which is part of the browser. Not clear if the problem was networking or a DB problem. Even just going to the main page (no DB access there) was very slow. As of yesterday, all seemed well though.*

*Eric improved the dCache plotting - increased the timeout for the scripts (Dehong's scripts) that assemble the dCache pages. Perhaps slow access to these dCache pages produced the gaps in the plots that were seen last week. Increased the timeout to hopefully prevent these gaps. Change is in CVS. Eric also added a check to make sure that a previous scan isn't in progress when a new scan starts.*

*Downtime planned for today has been moved to 3/26 (Wednesday). This is a week where many are on furlough.*

*When enstore library went offline last week, the backlog grew quickly. Looks like there aren't enough drives to handle this efficiently.*

## **MINOS:**

General -

Kreymer on furlough this week. See you next week.

AFS - Timeouts returned to daily after 10 March.

Enstore -

LTO-4 copies not going smoothly.

encp from BlueArc (/minos/data) run at 5 MB/sec

versus 30 MB/sec from local disk. Switched to local.

Wed - extremely low rates due to disconnects with 20 minute retries.

Probably due to some combination of

Overall STKEN overload

CMS load tests on LTO-4 drives

Our using encp v3\_6g rather than v3\_7

Rates good ( 30 MB/sec ) Wed through Sunday noon.

Then ENCP's stalled entirely

Ticket 112734

*David: Problem with encp over the weekend was that MINOS was writing with a file family width of 1 and they got unlucky and a drive got stuck. This problem was not caused by CMS, since there were several free drives not being used by MINOS. There was also a communication problem between an encp client and the mover (communication would stop, and the time out is 15 minutes before it tries again). That was the delays that Art was seeing. Cause of communication problem is unknown.*

DCache -

SAM -

Need to upgrade station to v6\_0\_5\_23\_srm - next month

Oracle -

## OPEN ISSUES

IT 1146: cannot test existence of sam tape location

IT 2071: quadratic project startup time growth

PLAN -

Migration to 9940B tape can proceed anytime

## DB:

D0 :

Announcement:

- April 1 - Upgrade the controller firmware on the 3par SAN storage. No interruption is expected.

However, this is for the first time, Storage Admin @Fermi is upgrading the 3par firmware.

Alert(s):

CDF :

- Scheduling the DB security and OS patches on cdfopr2 and SAM schema v6\_10 - March 26 or March 27

*OS Patches will take 3 hours - schema cuts take about another hour. So start at 8am, end around noon.*

- Owner	Object	Type	Extents Used	Extents Allocated	Extents Left
SAMPRD	AP_APS_FK_I	INDEX	196	200	4

Action: Added the max extents to 400.

Alert(s):

## Enstore/dCache:

enstore/dcache report

Scheduled Downtimes:

- o CDF - Wed, Mar 26, all day (*at least 8-4*)
  - upgrade of entire suite of enstore servers to SDE rack
  - update ACSLS code on fntt2
  - update license on fntt2 to include slots in SL8500-3

Operations:

- o SL8500
  - LSM 3 'bot failed, replaced by Sun FE. Library was down for almost 12 hours because Sun improperly denied us 24-hr support. We now have a procedure for escalation if required.
- o d0en
  - s/w patch applied to both AML/2 robot arms (*have not seen arm problems again*)
- o stken
  - Problems with CD-LTO3 library manager continue. Keeping the queue limited to 1000 jobs has helped stability, if not performance.
  - stkensrv2 (config, log, web server) crippled by SCSI errors talking with its raid array. Moved system and raid to an identical spare.

*Need people to buy more LTO4 drives.*

o cdfen

- restored a file that was accidentally deleted by Angela (lost an online data file).